

Amendments

Claim 1. (cancelled)

Claim 2. (Previously Presented) An apparatus comprising:

a first transmitter operable to transmit a first pulse position modulation signal in a first frequency channel;

a second transmitter operable to transmit a second pulse position modulation signal in a second frequency channel; and

an encoder operable to at least in part encode data in the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 3. (Previously Presented) The apparatus of claim 2, wherein the encoder is further operable to at least in part encode the data by alternating between the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 4. (Previously Presented) The apparatus of claim 2, wherein the encoder is further operable to at least in part encode the data in a respective amplitude component of the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 5. (Previously Presented) The apparatus of claim 2, wherein the data comprises a packet.

Claim 6. (Previously Presented) The apparatus of claim 5, wherein the packet comprises a header.

Claim 7. (Previously Presented) The apparatus of claim 2, wherein the encoder is further operable to at least in part encode the data in a time difference between the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 8. (Previously Presented) The apparatus of claim 2, and further comprising:

a third transmitter operable to transmit a third pulse position modulation signal in a third frequency channel;

a fourth transmitter operable to transmit a fourth pulse position modulation signal in a fourth frequency channel; and

wherein the encoder is further operable to encode data at least in part in the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 9. (Previously Presented) The apparatus of claim 8, wherein the encoder is further operable to at least in part encode the data by alternating between the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 10. (Previously Presented) The apparatus of claim 8, wherein the encoder is operable to at least in part encode the data in a respective amplitude component of the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 11. (Previously Presented) The apparatus of claim, 8 wherein the data comprises a packet.

Claim 12. (Previously Presented) The apparatus of claim 11, wherein the packet comprises a header.

Claim 13. (Previously Presented) The apparatus of claim 8, wherein the encoder is further operable to at least in part encode the data in a time difference between the third pulse position modulation signal and the fourth pulse position modulation signal.

Claim 14. (Previously Presented) The apparatus of claim 8, wherein the encoder is operable to at least in part encode the data by alternating between the first pulse position modulation signal, the second pulse position modulation signal, the third pulse position modulation signal, and/or the fourth pulse position modulation signal.

Claim 15. (Previously Presented) A system comprising:

a computing device;

a first transmitter operable to transmit a first pulse position modulation signal in a first frequency channel;

a second transmitter operable to transmit a second pulse position modulation signal in a second frequency channel; and

an encoder operable to communicate with the computing device and operable to at least in part encode data in the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 16. (Previously Presented) The system of claim 15, wherein the encoder is operable to at least in part encode the data by alternating between the third pulse position modulation signal and the fourth pulse position modulation signal.

Claim 17. (Previously Presented) The system of claim 15, wherein the encoder is operable to at least in part encode the data in a respective amplitude component of the first pulse position modulation signal and/or the third pulse position modulation signal.

Claim 18. (Previously Presented) The system of claim 15, wherein the data comprises a packet.

Claim 19. (Previously Presented) The system of claim 18, wherein the packet comprises a header.

Claim 20. (Previously Presented) The apparatus of claim 15, wherein the encoder is further operable to at least in part encode the data in a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claim 21. (Previously Presented) The system of claim 15 further comprising:

a first receiver operable to receive a third pulse position modulation signal in a first frequency channel;

a second receiver operable to receive a fourth pulse position modulation signal in a second frequency channel; and

a decoder operable to decode the third pulse position modulation signal and/or the fourth pulse position modulation signal into data.

Claim 22. (Previously Presented) The system of claim 21, and further comprising:

a second computing device;

a third transmitter operable to transmit a fifth pulse position modulation signal in a first frequency channel;

a fourth transmitter operable to transmit a sixth pulse position modulation signal in a second frequency band; and

a second encoder operable to communicate with the second computing device and operable to at least in part encode data in the fifth pulse position modulation signal and/or the sixth pulse position modulation signal.

Claim 23. (Previously Presented) The system of claim 22, wherein the second encoder is further operable to at least in part encode the data in a time difference between the fifth pulse position modulation signal and the sixth pulse position modulation signal.

Claim 24. (Previously Presented) A method comprising:

transmitting a first pulse position modulation signal in a first frequency channel;

transmitting a second pulse position modulation signal in a second frequency channel;

encoding data at least in part into the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 25. (Previously Presented) The method of claim 24, wherein said encoding data comprises encoding the data at least in part into an amplitude component of the first pulse position modulation signal.

Claim 26. (Previously Presented) The method of claim 24, wherein said encoding data comprises at least in part encoding the data by alternating between encoding the data into the first pulse position modulation signal and the second pulse position modulation signal.

Claim 27. (Previously Presented) The method of claim 24, and further comprising encoding at least a portion of the data at least in part into a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claim 28. (Previously Presented) An apparatus comprising:

- a first transmitting means for transmitting a first signal;
- a second transmitting means for transmitting a second signal; and
- an encoding means for encoding data at least in part into the first and/or second signals.

Claim 29. (Previously Presented) The apparatus of claim 28 further comprising:

- a first receiving means for receiving a third signal;
- a second receiving means for receiving a fourth signal; and
- a decoding means for decoding data at least in part from the third and/or fourth signals.

Claim 30. (Previously Presented) A method comprising:

- encoding a first portion of data;
- transmitting the encoded first portion of data at least in part in a first pulse position modulation signal in a first frequency channel;
- encoding a second portion of data at least in part while transmitting the first portion of data; and

transmitting the encoded second portion of data at least in part in a second pulse position modulation signal in a second frequency channel.

Claim 31. (Previously Presented) The method of claim 30, wherein encoding the first portion of data comprises encoding the first portion of data at least in part into an amplitude component of the first pulse position modulation signal.

Claim 32. (Previously Presented) The method of claim 31, wherein encoding the second portion of data further comprises encoding the second portion of data at least in part into an amplitude component of the second pulse position modulation signal.

Claim 33. (Previously Presented) The method of claim 30, further comprising encoding a third portion of data at least in part into a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claim 34. (Previously Presented): A system comprising:

- a first transmitter for transmitting data in a first pulse position modulation signal in a first frequency channel;

- a second transmitter for transmitting data in a second pulse position modulation signal in a second frequency channel; and

- an encoder for converting data at least in part into an electromagnetic form for transmission by the first and/or second transmitter.

Claim 35. (Previously Presented) The system of claim 34, and further comprising:

- a first receiver for receiving a third portion of data in a third pulse position modulation signal in the first frequency channel;

- a second receiver for receiving a fourth portion of data in a fourth pulse position modulation signal in the second frequency channel; and

a decoder for converting the third pulse position modulation signal and/or the fourth pulse position modulation signal into the third portion of data and/or the fourth portion of data, respectively.

Claim 36. (Previously Presented): A system comprising:

- a first computing device;

- a first transceiver capable of being in communication with said first computing device and capable of transmitting and/or receiving a first portion of data at least in part in a first pulse position modulation signal in a first frequency channel and/or a second portion of data at least in part in a second pulse position modulation signal in a second frequency channel.

Claim 37. (Previously Presented) The system of claim 36, and further comprising:

- a second computing device; and

- a second transceiver capable of being in communication with said second computing device and capable of transmitting and/or receiving a third portion of data at least in part in a third pulse position modulation signal in the first frequency channel and/or a fourth portion of data at least in part in a fourth pulse position modulation signal in the second frequency channel.

Claim 38-53 (Withdrawn).

Claim 54. (Previously Presented) An apparatus comprising:

- a plurality of transmitters operable to transmit a plurality of pulse position modulation signals, the plurality of pulse position modulation signals having respective frequency channels; and

- an encoder operable to encode data at least in part into the plurality of pulse position modulation signals.

Claim 55-63 (Withdrawn)